

Remarks

Applicants respectfully request reconsideration of the present U.S. Patent application as amended herein. Claim 1 has been amended. No claims have been added or canceled. Thus, claims 13-18 are pending.

CLAIM REJECTIONS – 35 U.S.C. § 103(a)

Claims 13-18 were rejected as being unpatentable over U.S. Patent 6,128,310 issued to Chow, et al. (*Chow*) in view of U.S. Patent No. 5,680,131 issued to Herbert W. Utz (*Utz*). For at least the reasons set forth below, Applicants submit that claims 13-18 are not rendered obvious by *Chow* and *Utz*.

Claim 13 recites:

a state machine coupled to the cipher unit to also use the ciphering unit to generate a plurality of pseudo random numbers based on selected ones of said cipher bits wherein the state machine is equipped to transition to a continuous clocking state that includes, upon power on or reset, causing the cipher unit to be continuously clocked to introduce entropy into the cipher unit, wherein the state machine operates in one of four states: a continuous clocking state (E0), a first cipher bit taking state (E1), an output state (E2), a second cipher bit taking state (E3), and an active state (also referred to as the authenticated state), and during operation, the state machine enters state E0 upon power on and while in state E0, the state machine causes the cipher unit to be continuously clocked to incorporate entropy into the cipher unit, from state E0, the state machine transitions to the state E1, first cipher bit taking state, upon receipt of a request for a first pseudo random number, after clocking the cipher units for n clocks, where n is an integer, in state E1, the state machine causes a number of the output ciphering bits of the cipher unit be taken and stored into a temporary storage location for output, from state E1, the state machine enters the state E2, upon storing the taken ciphering bits, in state E1, the state machine causes the stored ciphering bits to be output as the requested pseudo random number, in state E3, the state machine causes a number of the output ciphering bits of the cipher unit be taken and stored into a temporary storage location for output, in the active state, the cipher

unit is used to generate ciphering bits to cipher the video before transmitting to a video receiving device and the cipher unit is not available for pseudo random number generation, from the active state, the state machine transitions back to E0, the continuous clocking state, if the authentication unit is notified of the video receiving device becoming unauthorized or becoming detached from the video source device.

Thus, Applicants claim specific operating states of a state machine within a video receiving device.

Chow discloses Media Access Controllers (MACs) with random number generators. However, *Chow* does not disclose operation of a state machine as claimed.

Utz is directed to a wireless security system. Specifically, *Utz* states:

The invention relates to wireless security systems. More particularly, the invention relates to a transmitting unit for a wireless ***security system for a vehicle***, the transmitting unit generating and transmitting a different security code each time power is interrupted and re-supplied to the transmitting unit.

See Field of the Invention at col. 1, lines 25-30 (emphasis added). In contrast, claims 13-18 are directed to a cipher unit to generate ciphering bits to cipher a data stream including at least video data. Thus, one of ordinary skill in the art would not have been motivated to combine *Chow* with *Utz*.

Further, because neither *Chow* nor *Utz* teaches or suggests operation of a state machine as recited in claim 13, no combination of *Chow* and *Utz* can render claims 13-18 obvious. Claims 14-18 depend from claim 13.

CONCLUSION

For at least the foregoing reasons, Applicants submit that the rejections have been overcome. Therefore, claims 13-18 are in condition for allowance and such action is earnestly solicited. The Examiner is respectfully requested to contact the undersigned by

telephone if such contact would further the examination of the present application.

Please charge any shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,
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